

Effect of Substitution Soybean Meal With Dried Distillers Grains and Solubles (DDGS) on Crude Protein Content, BETN and Crude Fiber, in Meat of Red Nile fish (*Oreochromis niloticus*).

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ABSTRACT

Aquaculture in Indonesia is growing, particularly freshwater fish farming. One of freshwater fishery commodities that have high production is red Nile Tilapia (*O.niloticus*). Preparation of feed with one source of nabati protein is DDGS (Distillers Dried Grains and Solubles). The treatment used are P1 (control, 0% DDGS, soybean meal as much as 45% of the total formulation), P2 (9% DDGS, soybean meal as much as 36% of the total formulation), P3 (18% DDGS, soybean meal as much as 27% of the total formulation), P4 (27% DDGS, soybean meal as much as 18% of the total formulation), P5(36% DDGS, soybean meal as much as 9% of the total formulation) with each repeated 4 times. The results of experiment showed that substituting the use of DDGS 0, 9, 18, 27, and 36% did not give significant effect on crude protein content, BETN, and crude fiber in meat of red Nile fish (*O.niloticus*). However, in the calculation of the price feed rates demonstrated that treatment with the calculation of P5 can improve the efficiency of feed rates when used for fish farming of red Nile (*O.niloticus*).

KEYWORDS : Soybean Meal, DDGS, Crude protein, BETN, and Crude fiber.